

Unicorn Delivery Gateway

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Chemical Constituents of Tobacco and Smoke View

Viewing record 1 of 4.

 Check here to mark this record for Print/Capture**CCTS: 8872****Title: Exhalation of malondialdehyde from the smoke of high-grade cigarettes and effectiveness of filtering it****Author: Witas, T.; Sledziewski, P.****Affiliation: Sea Fish. Inst., Mar. Acad., Szczecin, Pol.****Citation: Nahrung (1990) / 34(7), 615-21 ; 1990 CODEN: NAHRAR;
ISSN: 0027-769X****Language: English****Country: Poland****Year: 1990****Source: 114:180184 CA****Abstract:** It has been found that malondialdehyde penetrates during smoking through filters and exhales with smoke from many com. cigarettes. These cigarettes exhale malondialdehyde in a different way, in free form in the amt. from 8.5 to 23.5 mg/kg cigarettes on an av. of 13.3 mg/kg for the whole group and totally (in free and bounded form) from 9.5 to 26.5 mg/kg (av. 16.9 mg/kg). Moreover, it has been found that filters retain this aldehyde in free form on an av. of 9.9 mg/kg and totally (in free and bounded form) of 19.0 mg/kg. Without filters, these amts. would increase aldehyde contents in smoke by 42.7 and 52.9%, resp. Low malonalogenic properties of tobacco, high effectiveness of cigaret filters, high degree of tar deposition before inhalation into lungs, and slow (6 min and longer) smoking decide about low level of exhalation of malondialdehyde in cigaret smoke.**Molecular Name: 542-78-9 MALONIC ALDEHYDE****Synonyms: MALONIC ALDEHYDE-Propanedial****Synonyms: MALONIC ALDEHYDE-Malonaldehyde****Synonyms: MALONIC ALDEHYDE-Malondialdehyde**

http://rnc-libsrv1.rnc.pmu.com/uhtbin/cgisirsi/oPuwFkSPm1/30524006/2/11/2_11/29/00

13.3 mg/1 Kg cigarts

1 Kg cigs ~ 1000 cigs

13.3 mg/1000 cigs =

0.0133 g/1000 cigs = 0.0133 x 10⁻³ g

= 0.000133 g

= 13.3 μg/cigts

*1 part in
10³
Malondialdehyde
1000 cigs*

PM3001194775

Synonyms: **MALONIC ALDEHYDE-Malonyldialdehyde**

Synonyms: **MALONIC ALDEHYDE-Malonic dialdehyde**

Synonyms: **MALONIC ALDEHYDE-Malonic aldehyde**

Synonyms: **MALONIC ALDEHYDE-1,3-Propanedialdehyde**

Synonyms: **MALONIC ALDEHYDE-Malonodialdehyde**

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